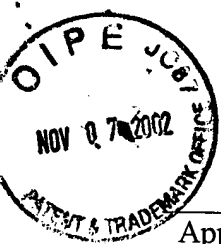


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Atty. Docket No.: 25436/1560 PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application of: Sorge, et al.
Serial No.: 09/698,341
Filed: October 27, 2000
Entitled: "Compositions and Methods Utilizing DNA Polymerases"

Examiner: Hutson, R.
Group Art Unit: 1652
Conf. No.: 6038

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.10

I hereby certify that the paper (and any paper or fee referred to as being enclosed) is being deposited with the United States Postal Service using Express Mail to Addressee Service, under 37 C.F.R. Section 1.10, **Express Mail Label No. EL932823161US** on this date, **November 7, 2002**, postage prepaid, in an envelope addressed to Box: RCE, Commissioner for Patents, Washington, D.C. 20231.

Kathleen Williams

Name of Person Mailing Paper

Signature of Person Mailing Paper

Box: AF
Commissioner for Patents
Washington, D.C. 20231

AMENDMENT UNDER 37 C.F.R. §1.116

Sir:

This is filed in response to the Final Office Action mailed May 7, 2002 in the above-noted patent application. Kindly enter the following proposed amendments and remarks:

In the Claims:

Please enter the following proposed amendments.

Please replace claims 6, 10 and 88 with amended claims 6, 10 and 88 as follows:

D1

6. (Twice Amended) An isolated recombinant mutant of the Thermococcus JDF-3 Family B DNA polymerase of SEQ ID NO: 2 that is 3' to 5' exonuclease deficient.

D2

10. (Twice Amended) An isolated recombinant Family B DNA polymerase having reduced discrimination against non-conventional nucleotides, wherein said DNA polymerase has a mutation in the Region II consensus sequence DXXSLYPSII.